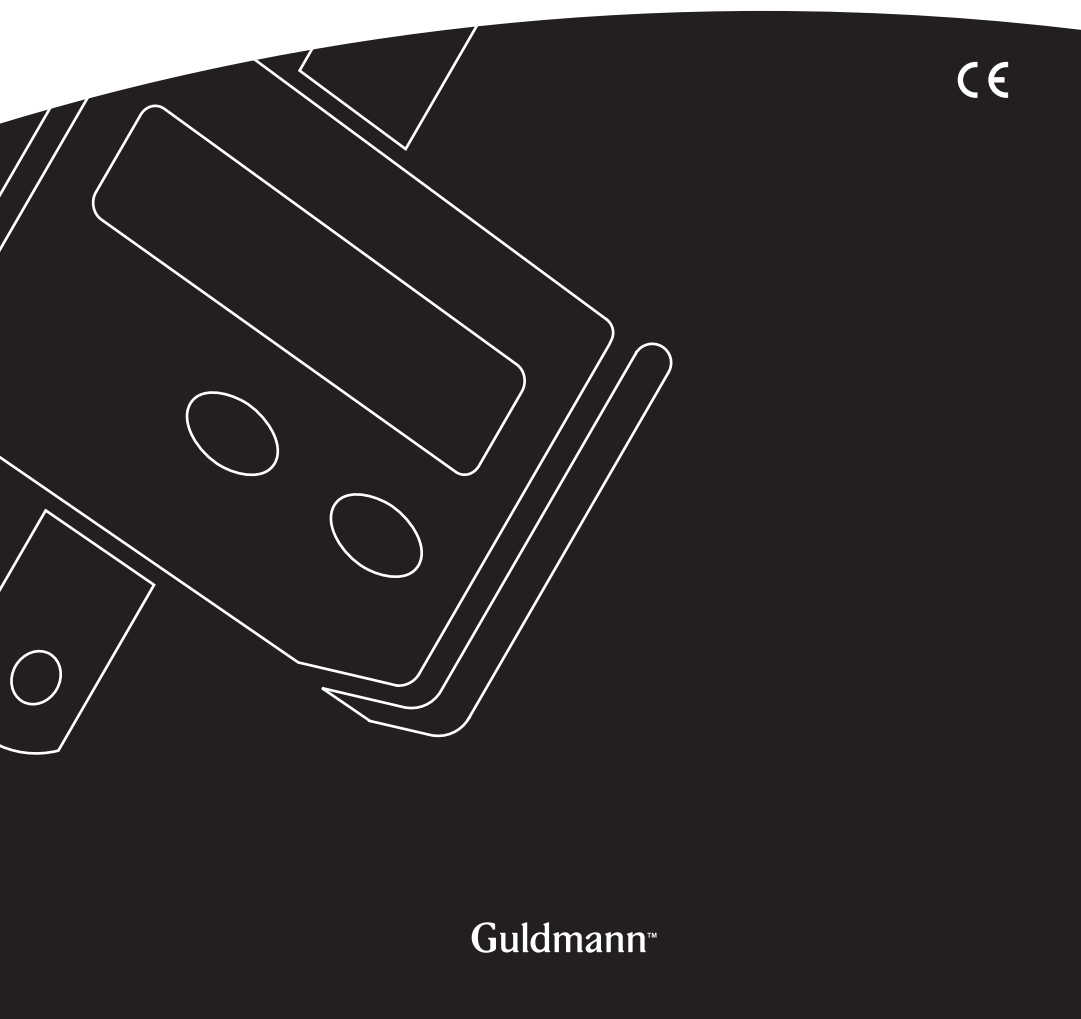




GB/US Digital Scale

Vers. 3.00

CE



Guldmann™

GB/US Digital Scale

Item no.:
11346 & 113461

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1.00 Purpose and Use

1.01 Manufacturer

V. Guldmann A/S
Graham Bells Vej 21-23A
DK - 8200 Aarhus N
Tel. + 45 8741 3100
Fax. + 45 8741 3131

1.02 Description

The Digital Scale is a compact precision scale designed specially for use with mobile and ceiling mounted hoists for disabled persons. Completely self-adjusting, it combines the latest microprocessor technology for measuring instruments and provides accurate repeated weight data with a calibrated accuracy of 0.1%. Automatic resetting with the help of a push button makes weighing patients fast and easy.

1.03 Important/warning

- Read the user manual carefully before using the Digital Scale.

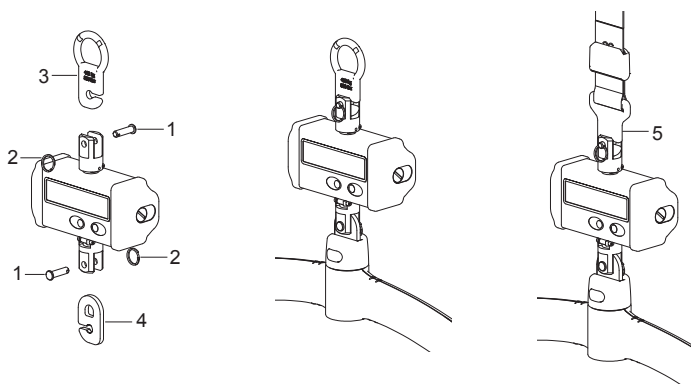
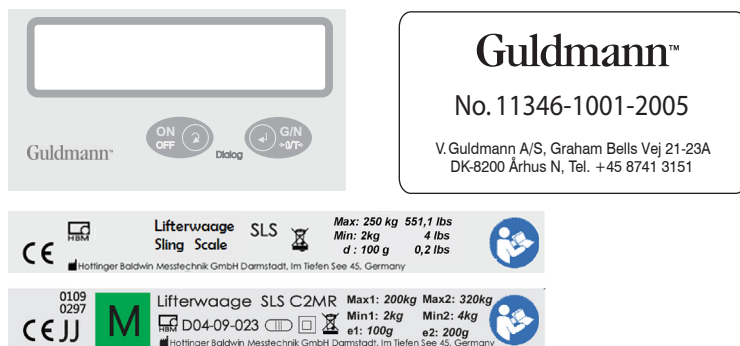
Safety instructions

- Please comply with the maximum capacity of the scale which is stated on the identification plate on the back of the device.



The maximum load of 250 kg/550 lbs. / 320 kg/704 lbs. must not be exceeded. The safety requirements and the notes on appropriate use must also be observed.

- The device must not be modified in any way that changes its design or construction with regard to safety without the express consent of the supplier. Any modification exempts the supplier from liability for any damage as a result of modification.
- It is strictly forbidden to carry out any repairs and soldering work on the motherboards or to replace any components. Repairs must only be undertaken by persons who are authorized and qualified to do so.
- Do not use the Digital Scale where there is a risk of water coming into direct contact with it.
- The display is not impact-proof, do not drop it.



There are many different ways of attaching the digital scale depending on the usage situation. The most common ways of attaching the digital scale are described below and the combination possibilities are illustrated in the configuration table at the end of this section.

1. Using the digital scale with a ceiling hoist GH2

Attach the digital scale to the snap hook on the ceiling hoist. Remove the spiral locking ring (2) and the split pin (1). Attach the lifting hanger by inserting the split pin into the hook on the lifting hanger and then inserting the spiral locking ring.

Hang the required sling on the lifting hanger and reset the digital scale to zero, see section 3. The display will now show 0.0.

2. Using the digital scale with a mobile lifter GL2, GL3

The digital scale is attached to the mobile lifter with the help of the oval hook. Remove the spiral locking ring (2) and the split pin (1). Attach the lifting hanger by inserting the split pin (1) into the hook on the lifting hanger and then inserting the spiral locking ring (2).

3. Using the movable digital scale with a ceiling hoist GH3, GH1 and a mobile lifter GL5

Remove the spiral locking rings (2) and the split pins (1).

Attach the digital scale with a swing kit (3) at the top and a GH3 adapter (4) at the bottom.

Insert the split pins (1) with the spiral locking rings (2).

4. Using the fixed digital scale with a ceiling hoist GH3, GH1 and a mobile lifter GL5

Remove the spiral locking rings (2) and the split pins (1).

Attach the digital scale on the hook of the GH3 lifting strap / GL5 hook at the top and a GH3 adapter (4) at the bottom.

Insert the split pins (1) with the spiral locking rings (2).

Hang the required sling on the lifting hanger and reset the digital scale to zero, see section 3. The display will now show 0.0.

5. Remove the sling from the hanger, place the user in the sling and hang it on the lifting hanger again.
6. Carefully lift the user. When the sling carrying the user is steady and freely suspended, the total weight will now be shown on the display.

Important

Always reset the scale to zero after weighing the patient.

Important

The power conserving function will automatically turn off the display after 30 seconds when there is no weight on the scale. This can be changed – see section 3.07.

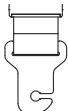
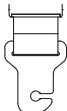
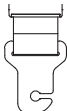
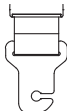


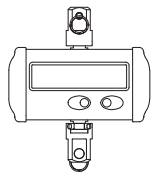
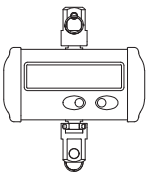
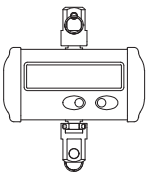
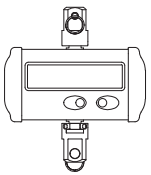




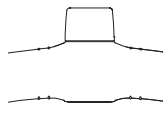
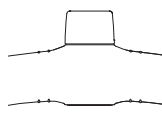
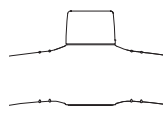
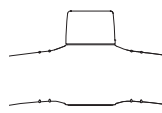
7. Carefully lower the user after reading the weight.



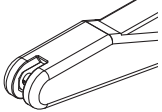


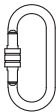
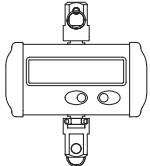
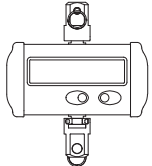
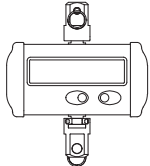
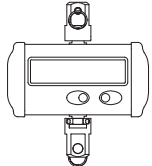

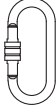
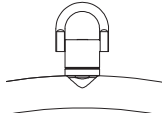
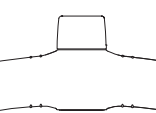
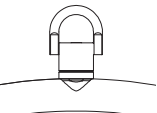
Caution

This device is intended to weigh patients during transfer (i.e.: bed to chair). In case the lifting height is reduced, it may be necessary to split the process in two. Start by weighing the user and remove the device, then make the final transfer (i.e. bed to chair). This device is NOT intended for use during patient transport and should be removed when moving a patient.

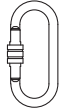



2.03

Configuration table

Configuration table for Digital scale				
Lifting capacity, max.	250 kg	320 kg	320 kg	250 kg
Length	270 mm	320 mm	240 mm	200 mm
Product	Ceiling hoist GH1 / GH3 movable	Ceiling hoist GH1 / GH3 movable	Ceiling hoist GH1 / GH3 fixed	Ceiling hoist GH1 / GH3
Lifter interface				
Adapter interface top			NA	NA
Digital scale SLS		 C2MR	 C2MR	
Adapter interface bottom				
Hanger interface				

Configuration table for Digital scale				
Lifting capacity, max.	250 kg	205 kg	205 kg	250 kg
Length	170 mm	250 mm	220 mm	375 mm
Product	Ceiling hoist GH2	Mobile lifter GL5	Mobile lifter GL	Universal
Lifter interface				NA
Adapter interface top	NA			
Digital scale SLS				
Adapter interface bottom	NA		NA	
Hanger interface				NA

2.04**Accessories**

Description	Part no.	Installation length	Illustration
Oval hook	21160	107,5 mm	
GH3 Adapter for Mobile lifter	552530	60 mm	
Swing Kit, GH3	554903	78,5 mm	
GH3 adapter for GH2 hook	552529	29 mm	

2.05**More information**

If you have any questions or comments regarding the operation of the Guldmann Digital Scale, please contact your distributor.

3.01

Switching on/weighing

The scale is ready to use about 10 seconds after it has been switched on.
During this time, the scale must neither be moved nor subjected to a load!



Switch on the scale



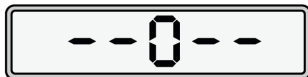
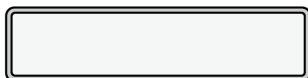
please wait

Display segment test
(~5 seconds)

Automatic resetting 1)
(~3 seconds)

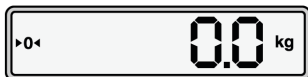
Then all segments go off
(~2 seconds)

please wait



The scale is ready to use.

You can now use the scale.



- 1) If the scale is switched on carrying a load (tare) of more than 20% of the weighing range, automatic resetting to zero will not take place. In this case, resetting must be performed manually (see chapter 3.02).

3.02

Resetting/additive weighing

Switch on the scale and wait ~10 seconds (see chapter 3.01).

Add the weight to be tared (e.g. belt).



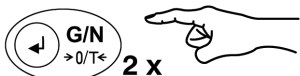
Resetting to zero

It is now possible to weigh the person with and without the sling



Keep pressing the G/N key to toggle between the scale zero and the gross weight.

Add more of the weight to be reset.



Resetting to zero

It is now possible to weigh the person with and without the sling



The first time the G/N key is pressed, the current total (gross) weight is displayed. Resetting to zero occurs when the G/N key is pressed again. You can repeat this as often as you like until the maximum weighing range of the scale is reached.

3.03

Switching off



Press the ON/OFF key to switch off the scale

3.04

Error messages

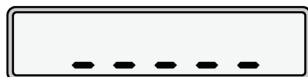
Overload



Scale overloaded!

Please comply with the rated load for the scale (see identification plate on the back of the device)

Underload



Switch the scale off and on again.



Battery status

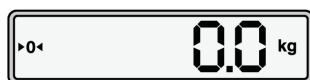


The batteries must be replaced!

3.05

Changing the unit (kg <--> Lb)

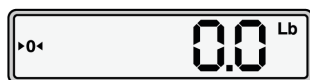
Switch on the scale and wait ~10 seconds (see chapter 3.01).



Unit kg



Continue pressing for ~5 seconds



Unit Lb (American pounds)

The same method is used to change from Lb to kg.

The last unit set is retained even when the scale is switched off.

3.07

Setting/modifying OFF time (Power Off)

Switch on the scale and wait ~10 seconds (see chapter 3.01).

Simultaneously pressing the **ON/OFF** and **G/N** keys enables standard function.

press simultaneously

Standard function

1 x

OFF time (Power Off = automatic switching off)

Select by repeatedly pressing the **ON/OFF** key (digit flashes):

1-3 x

Can only be switched off manually (by means of the **ON/OFF** key)

1

Switches off automatically after 30 secs. (only if the scale is unloaded)

2

Switches off automatically after 60 secs. (only if the scale is unloaded)

1 x

Confirm the selection with the **G/N** key

At this point, you can check or change **PO** by pressing **ON/OFF** again.

1-2 x

Pressing once: Filter setting AF (see next page)

or

pressing twice: back to weighing mode

AF

0.0 kg

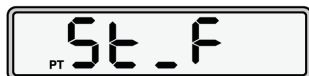
Filter setting/filter change (Stabilizing the weight display)

Switch on the scale and wait ~10 seconds (see chapter 2.01).

Simultaneously pressing the **ON/OFF** and **G/N** keys enables standard function



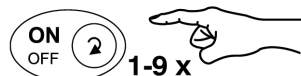
Press
simultan-
eously



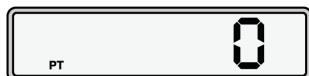
Standard function



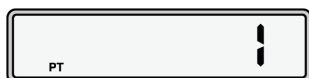
Filter setting (amplifier filter)



Select by repeatedly pressing
the ON/OFF key (digit flashes):

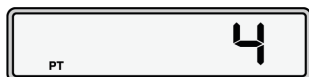


0 = Filtering switched off



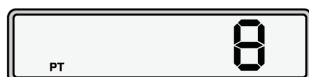
1 = low filtering:

+ very rapid weight display
-- the display flickers when the scale is moved



4 = average filtering (recommended):

+ fast weight display
+ steady display



8 = very strong filtering:

+ Possible to weigh people who are unable to keep still
-- long waiting time until the weight or the zero-point of the scale is displayed steadily



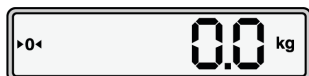
Confirm the selection and confirm the
settings with the **G/N** key



At this point, you can check or change **AF**
by pressing **ON/OFF** again



Back to weighing mode



You can now use the scale

4.00**Transport**

Guldmann recommends that the Digital Scale be transported in its original packaging.

5.00**Maintenance and storage**

5.01**Cleaning**

It is only necessary to wipe the apparatus carefully with a damp cloth. Never use abrasive or caustic detergents.

5.02**Storing**

The Digital Scale should be kept in a dry room

6.00**Battery**

The digital scale is powered by four 1.5 V type AA batteries, and they have a useful lifetime of approximately 400 hours. Lines will appear on the display when it is necessary to replace the batteries, see section (3.04).

Replacing batteries

Unscrew the right-hand cover and insert the battery holder with batteries (4 x 1.5V - type AA), and make sure that they are inserted correctly as shown on the apparatus! Press the tray into the battery aperture and screw the cover on. The scale is now ready for use.



6.01**Disposing of the digital scale and batteries**

Always comply with local and national rules. Batteries must always be delivered to an approved recycling depot.

7.00**Technical specifications****Weight range**

Item no. 113461 0 - 250 kg / 0 - 550 lbs

Item no. 11346 0 - 320 kg / 0 - 700 lbs

Display type LCD

Display resolution

Item no. 113461 0.1 kg / 0.22 lbs

Item no. 11346 up to 200 kg = 0.1 kg / 440 lbs = 0,22 lbs

Item no.11346 over 200 kg = 0.2 kg / 440 lbs = 0,44 lbs

Display accuracy $\pm 0,1\%$

Size (H x L x W) 77x103x77 mm/3"x4"x3"

Weight 0.7 kg / 1,54 lbs

Battery 4 x 1,5 V Type AA

Battery life 400 hours

Protection class IP 54

8.00**Calibration/verification of digital scale, item No. 11346**

In order to maintain the medical approval the digital scale must be calibrated/verified according to national regulatory requirements at an accredited testing institute.

9.00**Environmental policy statement - V. Guldmann A/S**

Guldmann is continuously working towards ensuring that the company's impact on the environment, locally and globally, is reduced to a minimum.

It is Guldmann's goal to:

- Comply with the current environmental legislation (e.g. WEEE and REACH directives)
- Ensure that we, at the widest possible range, use RoHS compliant materials and components
- Ensure that our products do not have an unnecessary negative impact on the environment regarding use, recirculation or disposal
- Ensure that our products contribute to a positive working environment in the places they are utilised

Inspections are made annually by the Department for Nature and Environment from the Municipality of Aarhus using the Danish Environmental Protection Act, section 42 as a reference.

10.00**EC-Declaration of conformity**

The product is manufactured in compliance with the Council Directive 93/42/EEC of June 14th 1993, including amendments, as medical device class 1.



Konformitätserklärung

Declaration of Conformity

Déclaration de Conformité

Document: 230 / 2009-10

Wir,

We,

Nous,

Hottinger Baldwin Messtechnik GmbH, Darmstadt

erklären in alleiniger Verantwortung,
dass das Produkt

declare under our sole
responsibility that the product

déclarons sous notre seule
responsabilité que le produit

Weighing Instrument

Types **SLSC2, SLSC2MR**

auf das sich diese Erklärung
bezieht, mit der/den folgenden
Norm(en) oder normativen
Dokument(en) übereinstimmt (siehe
Seite 2) gemäß den Bestimmungen
der Richtlinie(n)

to which this declaration relates is
in conformity with the following
standard(s) or other normative
document(s) (see page 2)
following the provisions of
Directive(s)

auquel se réfère la présente
déclaration est conforme à la (aux)
norme(s) ou autre(s) document(s)
normatif(s) (voir page 2)
conformément aux dispositions de
la (des) Directive(s)

2004/108/EC - Directive 2004/108/EC of the European Parliament and of the Council of 15 December 2004 on the approximation of the laws of the Member States relating to electromagnetic compatibility and repealing Directive 89/336/EEC

2009/23/EC - Directive 2009/23/EC of the European Parliament and of the Council of 23 April 2009 on non-automatic weighing instruments (codified version)

Diese Konformitätserklärung gilt nur
in Verbindung mit einer
Bescheinigung der EG-Bauart-
zulassung einer benannten Stelle.

Zulassungsnummer: D04-09-023

This declaration of conformity is
only valid in conjunction with an EC
type-approval of a notified body.

N° of type-approval: D04-09-023

Cette déclaration de Conformité est
valide seulement avec un certificat
d'approbation CE de type d'un
organisme notifié.

N° d'approbation: D04-09-023

Erstmalige Anbringung der CE-
Kennzeichnung: 2004

First attachment of the CE mark:
2004

Première application de la marque
CE: 2004

Die Absicherung aller produkt-
spezifischen Qualitätsmerkmale
erfolgt auf Basis eines zertifizierten
Qualitätsmanagementsystems nach
ISO 9001.
Die Überprüfung der sicherheits-
relevanten Merkmale (Elektro-
magnetische Verträglichkeit, Sicher-
heit elektrischer Betriebsmittel) stellt
ein von der DATech erstmals 1991
akkreditiertes Prüflaboratorium
unabhängig im Hause HBM sicher.

All product-related features are
secured by a certified quality
system in accordance with
ISO 9001.
The safety-relevant features
(electromagnetic compatibility,
safety of electrical apparatus) are
secured at HBM by an independent
testing laboratory which has been
accredited by DATech in 1991 for
the first time.

La garantie de toutes les
caractéristiques de qualité d'un
produit spécifique s'effectue sur la
base d'un système d'assurance
qualité certifié selon la norme
ISO 9001.
Le contrôle des caractéristiques
relatives à la sécurité (compatibilité
électromagnétique, sécurité
d'équipement électrique) est assuré
chez HBM de manière
indépendante par un laboratoire
d'essais, accrédité pour la première
fois en 1991 par DATech.

Darmstadt, 2009-10-01


Andreas Hüllhorst, CEO


Dr. Wolfram Meitz, CFO

0109-P1, vers. 12/2008

Hottinger Baldwin Messtechnik GmbH

Im Tiefen See 45 · D-64293 Darmstadt · Germany · Tel. +49 6151 803 0 · Fax +49 6151 803 9100 · Email: info@hbm.com · www.hbm.com

Zertifiziert nach ISO 9001 und ISO 14001 (DQS-000001)
Certified acc. to ISO 9001 and ISO 14001 by DQS

Akkreditiert als DKD-Kalibrierlab. (DKD-K-00101)
Accredited as calibration laboratory by DKD

Akkreditiert als EMV-Prüflab. (DAT-P-012/DAT-P-006)
Accredited as EMC testing laboratory by DATech



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Diese Erklärung bescheinigt die Übereinstimmung mit den genannten Richtlinien, beinhaltet jedoch keine Zusicherung von Eigenschaften. Die Sicherheitshinweise der mitgelieferten Produktdokumentation sind zu beachten.

This declaration certifies conformity with the directives mentioned, but is no warranty of characteristics. The safety instructions of the included product documentation must be complied with.

Cette déclaration certifie la conformité avec les directives citées mais n'inclut pas de garantie des caractéristiques techniques. Les consignes de sécurité de la documentation jointe au produit doivent être suivies.

Folgende Normen werden zum Nachweis der Übereinstimmung mit den Vorschriften der Richtlinie(n) eingehalten:

The following standards are met as proof of conformity with the provisions of the Directive(s):

Pour la preuve de conformité aux dispositions de la (des) Directive(s) le produit répond aux normes:

EN 61326-1 : 2006

Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 1: General requirements (IEC 61326-1:2005)

EN 61326-2-3 : 2006

Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 2-3: Particular requirements - Test configuration, operational conditions and performance criteria for transducers with integrated or remote signal conditioning (IEC 61326-2-3:2006)

EN 45501 : 1992

Metrological aspects of non-automatic weighing instruments; Annex B.3: performance tests for disturbances

01006-F1, Vers. 12, 05/2008

Hottinger Baldwin Messtechnik GmbH

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USA and countries outside the EU

A. Users guide

Before using the product, read the entire operation manual including warranty.

B. WARRANTY

Guldmann warrants its equipment is free from material defects under normal use, and will perform substantially in accordance with the specifications set forth in documentation provided with the equipment.

This express warranty shall be in effect for one year from the date of original purchase and installation (the "Warranty Period"). If a valid claim is made during the Warranty Period for malfunction or equipment defect, Guldmann will repair or replace the equipment at no additional cost to you. Guldmann retains sole discretion as to whether the equipment will be repaired or replaced.

This warranty shall be null and void if the equipment is operated and maintained in any manner inconsistent with its intended use or the instructions provided with the product. Further, in order for the warranty to remain in effect for the full Warranty Period, all service to the equipment must be provided by a Guldmann designated technician. Any parts or components repaired or replaced by a Guldmann designated technician will be guaranteed for the remainder of the Warranty Period.

The warranty does not cover any part of the equipment which has been subject to damage or abuse by the user or others. The warranty does not cover any part of the equipment which has been altered or changed in any way by the user or others. Guldmann does not warrant that the lifting device functions will meet your requirements, be uninterrupted or error free.

The warranty set forth is in lieu of all other express and implied warranties, whether oral, written or implied, and the remedies set forth above are your sole and exclusive remedies. Only an authorized officer of Guldmann may make modifications to this warranty, or additional warranties binding on Guldmann. Accordingly, additional statements such as advertising or presentations, whether oral or written, do not constitute warranties by Guldmann.

Service or Repair

Contact Guldmann Repair for an authorization to return any defective item during the Warranty Period. You will be provided with a return authorization number and address for returning the item for warranty service or replacement. Do not return items to Guldmann under warranty without receiving a Return Authorization Number.

If mailing the item, pack it carefully in a sturdy carton to prevent damage. Include your Return Authorization Number, a brief description of the problem and your return address and phone number. Guldmann does not assume the risk of loss or damage while in transit, so it is recommended you insure the package.

| Time to care |

V. Guldmann A/S

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